

Fremont High School Course Selection Guide

2018-2019

Fremont High School Mission Statement

Fremont High School and its community will provide an educational, supportive, and safe environment empowering students to learn, develop skills, be responsible and have a positive attitude necessary for life.

Business, Marketing, and Information Technology Education

PREPARING FOR COLLEGE AND CAREERS

5394

Grade 9

1 Quarter- Flex Credit, Career Academic Sequence

Preparing for College and Careers addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The focus of the course is the impact of today's choices on tomorrow's possibilities. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in-depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios.

DIGITAL APPLICATIONS AND RESPONSIBILITY

4528

Grades 9-10

1 Quarter-Directed Elective, Flex Credit, Career Academic Sequence

Because we live in a technology driven society, this class is a must for all students. Students will use the computer as a business and personal tool to expand their decision-making and problem-solving skills. Areas of instruction will include applications for word processing, spreadsheets, presentation and communication software, and Internet tools and research.

PERSONAL FINANCIAL RESPONSIBILITY

4540

Grades 10-12

1 Quarter- Directed Elective, Flex Credit, Career Academic Sequence

Do you ever plan to live on your own, have a job and a family, and be able to retire with dignity? Personal Finance will help students build skills in how to save, invest and spend money wisely. This course focuses on personal financial planning, responsibility, and decision making in the areas of income, saving and investing, banking, budgeting, record-keeping and managing risk, insurance and credit card debt.

PRINCIPLES OF MARKETING

5914

Grades 10-12

1 Quarter- Directed Elective, Flex Credit, Career Academic Sequence

If you are either college or non-college bound and interested in a career in marketing or sales or you have thought about owning your own business, you should take marketing. This introduction-level course will provide an overview of all aspects of business marketing and its importance in today's global economy. Areas of emphasis will include advertising/promotion/selling, distribution, financing, marketing-information management, pricing, and product/service management.

BUSINESS LAW AND ETHICS

4560

Grades 10-12

1 Quarter – Direct Elective, Flex Credit, Career Academic Sequence

Law suits and litigation seem to be a way of life. In this course students will learn the procedure of law. Mock trials and an overview of the legal system in the business setting will be a large part of this class. Topics covered include: basics of the judicial system, contract, personal, employment and property law. Both criminal and civil law are presented.

INTRODUCTION TO ACCOUNTING **4524**
Grades 10-12
2 Quarters – **Directed Elective, Flex Credit, Career Academic Sequence**
Accounting is the official language of business and one of the most important course offerings if you are interested in pursuing any career in business. Students will learn to analyze financial statements as well as understanding and recording business transactions.

INTRODUCTION TO ENTREPRENEURSHIP **5967**
Grades 10-12
1 Quarter – **Directed Elective, Flex Credit, Career Academic Sequence**
Have you ever wanted to own your own business? If so, this course is for you. Entrepreneurship is a specialized business course designed to enable students to acquire the knowledge and develop the skills needed to effectively organize, develop, create, and manage their own business. Topics addressed include the assessment of entrepreneurial skills, the importance of business ethics, and the role of entrepreneurs in a free enterprise system. Students will develop a written business plan for a business of their choice.

BUSINESS APPLICATIONS, DUAL CREDIT or Advanced Business, College Credit **4564**
(BA113 Business Computer Applications—Trine University)
Grades 10-12
2 Quarters – **Directed Elective, Flex Credit, Career Academic Sequence**
Prerequisite – Digital Citizenship
Many universities suggest taking a computer application class to their undergraduate students. Why not earn those credits now while at Fremont High School. Business Applications is a dual credit course from Trine University that students can take here at FHS. Students can earn three credit hours from Trine University while gaining valuable experience using the Microsoft Office Suite. Microsoft Word, Excel, Access, and PowerPoint will be the major topics covered in this Trine University INF 113 course.

Fine Arts

INTRODUCTION TO TWO-DIMENSIONAL ART **4000**
Grades 9-12
1 Quarter- **Directed Elective, Flex Credit, Career Academic Sequence**
Students taking Introduction to Two-Dimensional Art engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Additionally, students: (1) create works of art, (2) reflect upon the outcomes of those experiences, (3) explore historical connections, (4) write about the process, (5) make presentations about their progress at regular intervals, (6) work individually and in groups, (7) find direct correlation to other disciplines, and (8) explore career options in visual art. Students also identify ways to utilize and support art museums, galleries, studios, and community resources.

INTRODUCTION TO THREE-DIMENSIONAL ART

4002

Grades 9-12

1 Quarter- **Directed Elective, Flex Credit, Career Academic Sequence**

Prerequisite: Introduction to Two-Dimensional Art

Students taking Introduction to Three-Dimensional Art engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Within this context, students: (1) create works of art, (2) reflect upon the outcomes of those experiences, (3) explore historical connections, (4) write about the process, (5) make presentations about their progress at regular intervals, (6) work individually and in groups, (7) find a direct correlation to other disciplines, and (8) explore career options in visual art. Students also utilize art museums, galleries, studios, and community resources in their studies.

CERAMICS

4040

Grades 10-12

1 Quarter- **Directed Elective, Flex Credit, Career Academic Sequence**

Prerequisite: Introduction to Two-Dimensional Art, Introduction to Three-Dimensional Art

Students in ceramics engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works.

Students create works of clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills.

DIGITAL DESIGN

4082

Grades 10-12

1 Quarter- **Directed Elective, Flex Credit, Career Academic Sequence**

Prerequisite: Introduction to Two-Dimensional Art, Introduction to Three-Dimensional Art

Digital Design is a course based on the Indiana Academic Standards for Visual Art. Students in digital design engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. They incorporate desktop publishing, multi-media, digitized imagery, computer animation, and web design.

Students reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

DRAWING

4060

Grades 10-12

1 Quarter- **Directed Elective, Flex Credit, Career Academic Sequence**

Prerequisite: Introduction to Two-Dimensional Art, Introduction to Three-Dimensional Art

Students in drawing engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works.

Students create drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing and use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink. They reflect upon and refine their work; explore cultural and historical connections;

analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills.

PAINTING

4064

Grades 10-12

1 Quarter- **Directed Elective, Flex Credit, Career Academic Sequence**

Prerequisite: Introduction to Two-Dimensional Art, Introduction to Three-Dimensional Art

Painting is a course based on the Indiana Academic Standards for Visual Art. Students taking painting engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Students create abstract and realistic paintings, using a variety of materials such as mixed media, watercolor, oil, and acrylics as well as techniques such as stippling, gouache, wash, and impasto. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

BEGINNING CONCERT BAND

4160

Grades 9-12

4 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

Students taking this course are provided with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject area. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of music. Students may be required to participate in dress rehearsals.

INSTRUMENTAL ENSEMBLE

4162

Grades 9-12

4 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

Including Chamber and Jazz repertoire. This course is by audition only.

Students taking this course are provided with a balanced comprehensive study of chamber ensemble and solo literature, which develops skills in the psychomotor, cognitive and affective domains. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other areas. Student participation will develop elements of musicianship including: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature as pertaining to chamber ensemble and solo literature. Time outside of the school day may be scheduled for dress rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals.

BEGINNING CHORUS**4182**

Grades 9-12

4 Quarters- Directed Elective, Flex Credit, Career Academic Sequence

Students taking Beginning Chorus develop musicianship and specific performance skills through ensemble and solo singing. Chorus classes provide instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. A limited amount of time, outside of the school day, may be scheduled for dress rehearsals and performances. Students must participate in performance opportunities, outside of the school day, that support and extend the learning in the classroom.

CHORAL CHAMBER ENSEMBLE**4180**

Grades 9-12

4 Quarters- Directed Elective, Flex Credit, Career Academic Sequence

Student musicianship and specific performance skills in this course are enhanced through specialized small group instruction. Chamber ensemble classes provide instruction in creating, performing, listening to, and analyzing music in addition to focusing on specific subject matter. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. A limited number of public performances may serve as a culmination of daily rehearsal and music goals.

English/Language Arts**ENGLISH 9****1002****2 Quarters-Flex Credit, Career Academic Sequence**

English 9 consists of literature and composition components. Specifically, literature instruction focuses on opportunities to read and comprehend a broad variety of literature applying appropriate reading strategies to enhance reading skills and literary appreciation which includes the ability to: (1) identify and analyze the elements of story structure, (2) utilize literature and expository material related to the world of work and technical documents, (3) identify literature by genre, (4) identify the author's purpose and perspective, (5) recognize bias and propaganda, and (6) identify and analyze elements of drama. Students will also develop vocabulary through (1) decoding, (2) the use of Greek and Latin roots, (3) literary terms and the use of glossaries, (4) contextual clues, and (5) independent reading. Also, the course incorporates the Omni log Framework. Portfolios, seminars, alternative assessments, oral presentation, emergent benchmarking, and targeted reflective compositions are utilized.

ENGLISH 9/LANGUAGE ARTS LAB**1002****4 Quarters-Flex Credit, Career Academic Sequence**

English 9 consists of literature and composition components. Specifically, literature instruction focuses on opportunities to read and comprehend a broad variety of literature applying appropriate reading strategies to enhance reading skills and literary appreciation which includes the ability to: (1) identify and analyze the elements of story structure, (2) utilize literature and expository material related to the world of work and technical documents, (3) identify literature by genre, (4) identify the author's purpose and perspective, (5) recognize bias and propaganda, and (6) identify and analyze elements of drama. Students will also develop vocabulary through

(1) decoding, (2) the use of Greek and Latin roots, (3) literary terms and the use of glossaries, (4) contextual clues, and (5) independent reading. Also, the course incorporates the Omni log Framework. Portfolios, seminars, alternative assessments, oral presentation, emergent benchmarking, and targeted reflective compositions are utilized.

ENGLISH 9, ADVANCED

1002

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Recommendation of eighth-grade English teacher, approval of course instructor

This is a demanding and accelerated academic course designed for those students planning to eventually take Advanced Placement English and to attend college. Students entering this course must meet Broad-Based Planning Committee guidelines of high standardized test scores, teacher recommendations, and/or parent recommendation. Students study a variety of classic literary works. In addition, they write extensively and study the Greco-Roman roots of English vocabulary. Each student must complete an individual research project. The course incorporates the Omni log Framework. Portfolios, seminars, alternative assessment, oral presentation, emergent benchmarking, and targeted reflective compositions are utilized.

ENGLISH 10

1004

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: English 9

The literature portion of this course will focus on opportunities to respond critically, reflectively, and imaginatively to British literature, including major authors from the Puritan Era, Age of Reason, the Romantic Period, the Civil War Era, the Twenties, Modern Black Literature, the Forties, the Fifties, and Modern Drama, or World Literature including classic and contemporary works, and recognizes the relevance of this literature in today's world. The composition component provides students with the opportunity to write for various audiences and purposes. Students identify and employ various elements of good writing in well organized, descriptive, expository, and narrative writings. These elements include: (1) stating and supporting a point of view or opinion, (2) using transitions effectively to relate individual points and paragraphs to each other and to the main idea, (3) creating expository essays of persuasion and literary analysis, and (4) completing technical writing assignments. Students will continue the study of vocabulary through Greek and Latin stems. In addition, students will utilize portfolios.

ENGLISH 10, ADVANCED

1004

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: English 9, Advanced

Students entering this course must meet Broad-Based Planning Committee guidelines of high standardized test scores, teacher recommendations, and/or parent recommendation. Students will study selected literature as an introduction to major works of British literature. This course will emphasize analysis of theme and an understanding of genre and convention. In addition, students will write extensively using various modes of discourse and research writing situations. Students will use the basic modes of oral and written expression through the development of effective and narrative procedures, including focus and logical organization of ideas. Students will continue to study Greco-Roman roots of English vocabulary as well as the use of portfolios.

ENGLISH 11**1006****2 Quarters- Flex Credit, Career Academic Sequence****Prerequisite: English 10**

The literature component of this course will focus on selecting appropriate reading skills and strategies to: (1) distinguish elements in literature that make it a reflection of the social, economic, political thinking, or condition of the times; (2) analyze literature as it reflects divergent points of view; and (3) identify how contemporary writing reflects past tradition and movements. Students will also read works of British literature from the Anglo-Saxon period to the Modern Period; respond critically, reflectively, and imaginatively to American literature, including major authors from the Puritan Era, Age of Reason, the Romantic Period, the Civil War Era, the Twenties, Modern Black Literature, the Forties, the Fifties, and Modern Drama; and develop vocabulary through the use of (1) decoding, (2) Greek and Latin roots, (3) literary terms and the use of glossaries, (4) contextual clues, (5) recognizing analogies, and (6) independent reading. In addition, students will write one research paper and continue utilizing portfolios.

ENGLISH 11, ADVANCED or Advanced English/Language Arts, College Credit**1006****(ENG 103 Composition I, ENG 153 Introduction to Literature—Trine University)**

Grade 11

2 Quarters-Flex Credit, Career Academic Sequence**Prerequisite: Successful completion of English 10, Advanced**

English Composition I consists of intensive training in methods of exposition leading to the ability to write coherent, clear, and persuasive essays. Introduction to Literature introduces the student to literature of some complexity and sophistication, developing a critical vocabulary and skills in reading on an advanced level. Analysis of genre: short fiction, poetry, and drama.

ENGLISH 12**1008**

Grade 12

2 Quarters-Flex Credit, Career Academic Sequence**Prerequisite-English 11**

English 12 is a study of language, literature, composition, and oral communication focusing on an exploration of point of view or perspective across a wide variety of genres. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance for Grade 12 in classic and contemporary literature balanced with nonfiction. Students write fictional narratives, short stories, responses to literature, reflective compositions, historical investigation reports, resumes and technical documents incorporating visual information in the form of pictures, graphs, and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.

ENGLISH 12, ADVANCED or Advanced English/Language Arts, College Credit**1008****(ENG 113 Composition II—Trine University)****Prerequisite-successful completion of English 11, Advanced**

Grades 11-12

2 Quarters

English Composition I consists of intensive training in methods of exposition leading to the ability to write coherent, clear, and persuasive essays. Introduction to Literature introduces the student to literature of some complexity and sophistication, developing a critical vocabulary and skills in reading on an advanced level. Analysis of genre: short fiction, poetry, and drama.

COLLEGE ENTRANCE PREPARATION**0532**

Grades 10-11

1 Quarter-Career Academic Sequence

College-Entrance Preparation utilizes individual student score reports from the PSAT, PLAN, and/or ACCUPLACER to prepare students for the SAT, ACT, ACCUPLACER and/or Compass college readiness assessments. Based on student score reports, students will receive targeted instruction to strengthen their foundations in critical reading, writing, mathematics, and science sections of college admission and placement exams. As appropriate, the course will also encompass test taking strategies to prepare students for success on a high-stakes assessment. Teachers are encouraged to use a curriculum with longitudinal, successful results. Course may also include college selection and application units, to better prepare students for overall college-readiness. Being “college ready” means being prepared for any postsecondary education or training experience, including readiness for study at two-year and four-year institutions leading to a postsecondary credential (i.e., a certificate, license, Associate’s or Bachelor’s degree). Being ready for college means that a high school graduate has the English and mathematics knowledge and skills necessary to qualify for and succeed in entry-level, credit-bearing college courses without the need for remedial coursework.

SPEECH**1076**

Grades 10-11

1 Quarter-Career Academic Sequence

Speech, a course based on the Indiana Academic Standards for English/Language Arts, is the study and application of the basic principles and techniques of effective oral communication. Students deliver focused and coherent speeches that convey clear messages, using gestures, tone, and vocabulary appropriate to the audience and purpose. Students deliver different types of oral and multi-media presentations, including viewpoint, instructional, demonstration, informative, persuasive, and impromptu. Students use the same standard English conventions for oral speech that they use in their writing.

Health and Physical Education**PHYSICAL EDUCATION I****3542**

Grade 9-10

1 Quarter-Career Academic Sequence

Secondary Physical Education I emphasizes health-related fitness and develops the skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: (1) health-related fitness activities, (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) gymnastics, (6) outdoor pursuits, (7) self-defense, (8) aquatics, (9) dance, and (10) recreational games. Ongoing assessment includes both written and performance-based skill evaluations.

PHYSICAL EDUCATION II**3544**

Grade 9-10

1 Quarter- Career Academic Sequence

Secondary Physical Education II emphasizes a personal commitment to lifetime activity and fitness for enjoyment, challenge, self-expression, and social interaction. This course provides students with opportunities to achieve and maintain a health-enhancing level of physical fitness and to increase their knowledge of fitness concepts. It includes at least three different movement forms without repeating those offered in Secondary Physical Education I. Movement forms may include: (1) health-related fitness activities, (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) gymnastics, (6) outdoor pursuits, (7) self-defense, (8) aquatics, (9) dance, and (10) recreational games. Ongoing assessment includes both written and performance-based skill evaluations.

ELECTIVE PHYSICAL EDUCATION**3560**

Grades 10-12

1 Quarter- Career Academic Sequence**Prerequisite: Secondary Physical Education I and II**

Elective Physical Education promotes lifetime sport and recreation activities and provides an opportunity for an in-depth study in specific areas. A minimum of two of the following activities will be included: (1) health-related activities (cardio-respiratory endurance, muscular strength and endurance, flexibility and body composition), (2) team sports, (3) individual or dual sports, and (4) outdoor pursuits. It includes the study of physical development concepts and principles of sport and exercise as well as opportunities to develop or refine skills and attitudes that promote lifelong fitness. Students have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness. Ongoing assessment includes both written and performance-based skills. **Students may take this course up to six times, earning a maximum of six credits.**

HEALTH AND WELLNESS EDUCATION**3506**

Grade 9-10

1 Quarter- Career Academic Sequence

Health and Wellness provides the basis for continued methods of developing knowledge, concepts, skills, behaviors, and attitudes related to student health and well being. This course covers the following topics: (1) growth and development, (2) mental and emotional health, (3) community and environmental health, (4) nutrition, (5) family life education, (6) consumer health, (7) personal health, (8) alcohol, tobacco, and other drugs education, (9) intentional and unintentional injury, and (10) health promotion and disease prevention. This course assists students in understanding that health is a lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease.

Mathematics

The Mathematics curriculum is designed to meet the needs and skills of students and also challenge those students who exhibit high proficiency in the mathematics area.

Before pre-registering for high school courses, eighth-grade students will be recommended for Algebra I Extended, Algebra I, or Geometry. These recommendations will be based on past performance in math courses (grades and study habits), standardized test scores, and tentative post-high school plans. It is strongly advised that parents and/or students who wish to deviate from these recommendations first consult with the student's current math teacher and/or guidance counselor.

For students wishing to complete the five or six-year math curriculum, it will be necessary to double-up with two math courses during the same year.

ALGEBRA I/ALGEBRA ENRICHMENT

2520/2516

Grade 9

4 Quarters – **Flex Credit, Career Academic Sequence**

Students will be placed in this course by teacher recommendation and ISTEP scores.

Algebra I Extended is course for those students requiring a slower pace to acquire algebraic skills. *Algebra I* formalizes and extends the mathematics students learned in the middle grades. Five critical areas comprise Algebra I: Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and the students engage in methods of analyzing, solving, and using quadratic functions. Students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

ALGEBRA I

2520

Grades 9-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Algebra I formalizes and extends the mathematics students learned in the middle grades. Five critical areas comprise Algebra I: Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. Students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

GEOMETRY/MATHEMATICS LAB

2532/2560

Grades 9-12

4 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Algebra I, teacher recommendation

Geometry Extended is a course for those students requiring a slower pace to acquire geometric skills. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Six critical areas comprise the *Geometry* course: Congruency and Similarity; Measurement; Analytic Geometry;

Circles; and Polyhedra. Students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

GEOMETRY

2532

Grades 9-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Algebra I

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Six critical areas comprise the *Geometry* course: Congruency and Similarity; Measurement; Analytic Geometry; Circles; and Polyhedra. Students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

ALGEBRA II/MATHEMATICS LAB

2522/2560

Grades 9-12

4 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Algebra I, teacher recommendation

Algebra II Extended is a course for those students requiring a slower pace to acquire algebraic skills. *Algebra II* builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

ALGEBRA II

2522

Grades 9-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Geometry

Algebra II builds on work with linear, quadratics, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

COLLEGE ALGEBRA or Advanced Mathematics, College Credit

2544

(MATH 136 College Algebra—Ivy Tech Community College)

Grades 10-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Algebra II and Geometry

College Algebra presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, matrices, rational fractions, exponential and logarithmic functions, and sequences and series. This course is

designed to provide students with strong foundations for calculus and other higher-level math courses.

PRE-CALCULUS/TRIGONOMETRY or Advanced Mathematics, College Credit 2544
MATH 137 Trigonometry w/Analytic Geometry—Ivy Tech Community College)

Grades 10-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Algebra II and Geometry

This course combines the material from *Trigonometry* and *Pre-Calculus* into one course. The foundations of algebra and functions developed in previous courses will be extended to new functions, including exponential and logarithmic functions. The course also presents an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations, complex numbers in rectangular and polar/trigonometric forms, rectangular and polar coordinates, and conics. This course is designed to provide students with strong foundations for calculus and other higher-level math courses.

CALCULUS AB, Advanced Placement or Advanced Mathematics, College Credit 2544
(MATH 211 Calculus—Ivy Tech Community College)

Grade 11-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: College Algebra and Trigonometry/Pre-Calculus

Calculus AB Advanced Placement is a course based on content established by the College Board. *Calculus AB* is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Topics include the fundamental concepts and operations of calculus including limits, continuity, differentiation including implicit and logarithmic differentiation. The course applies differential calculus to solve problems in the natural and social sciences, to solve estimation problems and to solve optimization problems. It applies differential calculus to sketch curves and to identify local and global extrema, inflection points, increasing/decreasing behavior, concavity, behavior at infinity, horizontal and vertical tangents and asymptotes, and slant asymptotes. Calculus applies the concept of Riemann sums and anti-derivatives to find Riemann integrals. It also applies the fundamental theorem of calculus to solve initial value problems, and to find areas and volumes and the average values of a function.

Science

The science curriculum provides opportunities for all students to study science to meet their common needs and interests. Efforts are directed toward discovering able students and encouraging them to seek careers in science. Learning is conducted in classroom-laboratory situations that provide opportunities for individual and group instruction, investigation, and application of methods and principles of science to the investigation of problems of living.

BIOLOGY I **3024**

Grade 9-12

2 Quarters-Flex Credit, Career Academic Sequence

Biology I is a course based on regular laboratory and field investigations that include a study of the structures and functions of living organisms and their interactions with the environment. Students will explore the functions and processes of cells, tissues, organs, and systems within various species of living organisms and the roles and interdependencies of organisms within populations, communities, ecosystems, and the biosphere. Students work with the concepts, principles, and theories of the living environment. Students will be expected to: (1) gain an understanding of the history and development of biological knowledge, (2) explore the use of biology in various careers, and (3) investigate biological questions and problems related to personal needs and societal issues.

BIOLOGY I, ADVANCED **3024**

Grade 9

2 Quarters- Flex Credit, Career Academic Sequence

Prerequisite: Recommendation of eighth-grade science teacher, approval of course instructor

Incoming freshmen with a genuine interest in science may choose Biology I, Advanced rather than Earth and Space Science I. This rigorous course covers all of the standards of Biology I, but explores the issues of Biology in greater detail and provides extensive laboratory experience.

ENVIRONMENTAL SCIENCE **3010**

Grades 10-12

2 Quarters-Flex Credit, Career Academic Sequence

Environmental Science is an interdisciplinary course that integrates biology, earth science, chemistry, and other disciplines. Students enrolled in this course conduct in-depth scientific studies of ecosystems, population dynamics, resource management, and environmental consequences of natural and anthropogenic processes. Students formulate, design, and carry out laboratory and field investigations as an essential course component. Students completing Environmental Science acquire the essential tools for understanding the complexities of national and global environmental systems.

INTEGRATED CHEMISTRY-PHYSICS **3108**

Grades 9-11

2 Quarters- Flex Credit, Career Academic Sequence

Integrated Chemistry-Physics is a laboratory-based course in which students explore fundamental chemistry and physics principles. Students examine, through the process of scientific inquiry, the structure and properties of matter, chemical reactions, forces, motion, and the interactions between energy and matter. Working in a laboratory environment, students investigate the basics of chemistry and physics in solving real-world problems that may have personal or social consequences beyond the classroom.

CHEMISTRY I **3064**

Grades 10-12

2 Quarters- Flex Credit, Career Academic Sequence

Prerequisite: Algebra I, Biology I

Chemistry I is a course based on regular laboratory investigations of matter, chemical reactions, and the role of energy in those reactions. Students will compare, contrast, and synthesize useful

models of the structure and properties of matter and the mechanisms of its interactions. In addition, students enrolled in this course are expected to: (1) gain an understanding of the history of chemistry, (2) explore the uses of chemistry in various careers, (3) investigate chemical questions and problems related to personal needs and societal issues, and (4) learn and practice laboratory safety.

ANATOMY AND PHYSIOLOGY

5276

Grades 11-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Biology, Chemistry I

Anatomy and Physiology is a course in which students investigate concepts related to the Health Sciences. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy and Physiology. Studies include the process of homeostasis and the essentials of human function at the level of genes, cells, tissues, and organ systems. Students will understand the structure, organization, and function of the various components of the healthy human body in order to apply this knowledge in all health-related fields.

CHEMISTRY II or Advanced Science, Chemistry I-Dual Credit

3090

(CHEM 105 General Chemistry—Ivy Tech Community College)

Grades 11-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Chemistry I

Chemistry II is an extended laboratory, field, and literature investigations-based course. Students will examine the chemical reactions of matter in living and nonliving materials. Based on the unifying themes of chemistry and the application of physical and mathematical models of the interactions of matter, students use the method of scientific inquiry to answer chemical questions and solve problems concerning personal needs and community issues related to chemistry.

PHYSICS I or Advanced Science, Physics

3090

Grades 11-12

2 Quarters- **Flex Credit, Career Academic Sequence**

Prerequisite: Geometry, Algebra II, Chemistry

Physics I is a laboratory-based course in which students synthesize the fundamental concepts and principles related to matter and energy, including mechanics, wave motion, heat, light, electricity, magnetism, atomic and subatomic physics. Through regular laboratory study using such quantities as velocity, acceleration, force, energy, momentum, and charge, students (1) examine the nature and scope of physics, including its relationship to other sciences and its ability to describe phenomena using physical laws, (2) describe the history of physics and its role in the birth of technology, (3) explore the uses of its models, theories, and laws in various careers, and (4) investigate physics questions and problems related to personal needs and societal issues.

BIOLOGY II

Grades 11-12

2 Quarters- Flex Credit, Career Academic Sequence

This dual credit Biology course is designed to be the equivalent of a one-semester college introductory biology course usually taken by biology majors during their first year. This course is designed to be taken by students after the successful completion of a first course in high school biology and one in high school chemistry as well. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The course requires in-depth readings and in-depth laboratory activities.

Social Studies

GEOGRAPHY and HISTORY OF THE WORLD

1570

Grades 9-12

2 Quarters- Flex Credit, Career Academic Sequence

Geography and History of the World allows students to study the interaction of humans and their environments in a world setting. Students study global patterns of physical and cultural characteristics, including Earth/sun relationships, atmospheric and oceanic circulation, landforms, climate, vegetation, population, economic and political structures, culture, cultural diffusion, and international and interregional connections. Using maps, geographic representations and technology such as geographic information systems, students will examine spatial relationships, the interaction of physical and cultural characteristics of designated places, areas, or regions. Students are expected to apply knowledge of geographic concepts and uses of geography to inquiry, research, and participatory processes. Guiding course content are the themes of location, characteristic of place, human/environmental interaction, movement between places, and regions.

WORLD HISTORY and CIVILIZATION

1548

Grades 10-12

2 Quarters- Flex Credit, Career Academic Sequence

World History emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced people and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present. Students are also expected to practice skills and process of historical thinking and research and apply content knowledge to the practice of thinking and inquiry skills and processes. There will be continuous and pervasive interactions of processes and content, skills and substance, in the teaching and learning of history.

UNITED STATES HISTORY**1542**

Grade 11

2 Quarters- Flex Credit, Career Academic Sequence

United States History is a two-semester course that builds upon concepts developed in previous studies of U.S. History and emphasizes national development from the late nineteenth century into the twenty-first century. After reviewing fundamental themes in the early development of the nation, students are expected to identify and review significant events, persons, and movements in the early development of the nation. The course then gives major emphasis to the interaction of key events, people, and political, economic, social, and cultural influences in national developments from the late nineteenth century through the present as they relate to life in Indiana and the United States. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in U.S. History. Students develop historical thinking and research skills and use primary and secondary sources to explore topical issues and to understand the cause for changes in the nation over time.

**UNITED STATES HISTORY or Advanced Social Studies, College Credit
(HIS 113 American History II—Trine University)****1574**

Grade 11

2 Quarters- Flex Credit, Career Academic Sequence

Students in this course are expected to identify and review significant events, persons, and movements in the early development of the nation. The course gives major emphasis to the interaction of key events, persons, and groups with political, economic, social, and cultural influences on state and national development in the late nineteenth, twentieth, and early twenty-first centuries. Students are expected to develop skills and processes of historical thinking and inquiry that involve chronological thinking, comprehension, analysis, and interpretation. Investigation of themes and issues includes cultural pluralism and diversity of opinion in American society. Students should exercise their skills as citizens in a democratic society by engaging in problem-solving and civic decision-making in the classroom, school, and community setting.

**UNITED STATES GOVERNMENT or Advanced Social Studies, College Credit
(GOV 113 Introduction to Government—Trine University)**

Grade 12

1 Quarter- Flex Credit, Career Academic Sequence

United States Government provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States of America. Responsible and effective participation by citizens is stressed. Students will understand the nature of citizenship, politics, and government when they understand their rights and responsibilities as citizens and be able to explain how those rights and responsibilities as citizens are part of local, state, and national government in the United States today. Students examine how the United States Constitution protects individual rights and provides the structures and functions for the various levels of government affecting their lives. Students will also analyze how the United States government interacts with other nations and evaluate the United States' role in world affairs.

PSYCHOLOGY or Advanced Social Studies, College Credit **1574**
(PSY 113 Principles of Psychology—Trine University)

Grade 12

1 Quarter- Flex Credit, Career Academic Sequence

Psychology is the scientific study of mental processes and behavior. These areas include: Scientific Methods, Developmental, Cognitive, Personality, Assessment and Mental Health, Socio-cultural, and Biological Bases of Behavior. In the Scientific Methods area, research methods and ethical considerations are discussed. Developmental psychology takes a life span approach to physical, cognitive, language, emotional, social, and moral development. Cognitive aspects of psychology focus on learning, memory, information processing, and language. Personality, Assessment and Mental Health topics include psychological disorders, treatment, personality, and assessment. Socio-cultural dimensions of behavior deal with topics such as conformity, obedience, perceptions, attitudes, and the influence of the group on the individual. The Biological Bases focuses on the way the brain and nervous system functions, including topics such as sensation, perception, motivation, and emotion.

ECONOMICS or Advanced Social Studies, College Credit **1574**
(ECO 213 Microeconomics—Trine University)

Grade 12

1 Quarter- Flex Credit, Career Academic Sequence

This course examines the theory of demand and supply and price determination in market economies. The effects of individual consumers and producers, different market structures, and the distribution of income is also examined.

SOCIOLOGY or Advanced Social Studies, College Credit **1574**
(SOC 103 Principles of Sociology—Trine University)

Grades 11-12

1 Quarter- Flex Credit, Career Academic Sequence

Sociology provides opportunities for students to study human social behavior from a group perspective. The sociological perspective is a distinct method of studying recurring patterns in people's attitudes and actions and how these patterns vary across time, among cultures, and in social groups. The influence of culture on group behavior is addressed through areas of content including social institutions such as the family, religion, education, economics, government, community organizations and political and social groups. Students will explore the impact of social groups and institutions on individual and group behavior. Further, students will analyze a range of social problems in today's world and examine the role of the individual as a member of the community.

World Languages

World language courses offer a look at cultures other than our own. Our world language program provides a study of foods, customs, life-styles, clothing, and language of Spanish people. It is our belief that learning about other people is an important step in understanding ourselves and the world in which we live.

Many colleges require a world language for admission and some colleges will waive college world language requirements if a student has completed two or three years of high school world language. College-bound students are strongly urged to take a world language. **IT IS STRONGLY RECOMMENDED THAT BEGINNING SPANISH STUDENTS HAVE A GOOD COMMAND OF ENGLISH GRAMMAR SKILLS BEFORE ENTERING THESE COURSES. STUDENTS SHOULD NOT ATTEMPT THE NEXT LEVEL OF LANGUAGE WITHOUT A GRADE OF "C" OR BETTER IN THE PREVIOUS COURSE.**

SPANISH I or World Languages, College Credit 2120 **(SPAN 113, Spanish Reading and Writing, Trine University)**

Grades 9-12

2 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

Level I Spanish provides instruction that will enable students to discuss the many reasons for learning languages and to develop an understanding of the people who speak them. Students are able to apply effective strategies for language learning and show a willingness to experience various aspects of the culture. Students will have the opportunity to respond to and give oral directions and to make routine requests in the classroom and in public places, understand and use appropriate forms of address, ask and answer simple questions, read isolated words and phrases in a situational context, comprehend brief written directions and information, read short narrative texts on simple topics, and write familiar words and phrases in appropriate contexts and respond in writing to various stimuli. Students will also learn about nonverbal communication, cultural current events, major holidays and geographical features, greeting and leave-taking behaviors, courtesy behaviors, and social etiquette.

SPANISH II or World Language, College Credit 2122 **(SPAN 123, Spanish II, Trine University)**

Grades 10-12

2 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

Prerequisite: Successful completion of Spanish I

Level II Spanish enables students to participate in classroom and extracurricular activities related to Spanish, as well as to participate in conversations dealing with daily activities and personal interests. Students will become able to ask questions regarding routine activities, participate in conversations, relate simple narratives, interact in a variety of situations to meet personal needs, understand main ideas and facts from simple topics, read aloud with appropriate intonation and pronunciation, and write briefly in response to various situations.

**SPANISH III or World Languages, College Credit
(SPAN 203 Spanish III, Trine University)**

2124

Grades 11-12

2 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

Prerequisite: Successful Completion of Spanish II

Level III Spanish provides instruction that will enable students to understand and appreciate other cultures by comparing social behaviors and values of people using the language. Students are willing initiate and participate in discussions concerning these cultures. In addition, students are able to respond to factual and interpretive questions and interact in a variety of social situations, read for comprehension from a variety of authentic materials, read short literary selections, complete authentic forms and documents, and write paraphrases, summaries, and brief compositions.

Career-Technical Education

Career-technical education is a privilege for students at Fremont High School who display adequate attendance and a satisfactory academic record. Through technical training, students can attain the necessary skills for employment and/or prepare for further education at a trade school, community college, or four-year university.

All career-technical programs are a FULL YEAR IN LENGTH and students accepted into the program must agree he/she will remain in the program for its entirety. Students in vocational programs are not allowed to have a study hall unless their program demands one for travel purposes. They also may not be staff assistants.

All vocational programs require an application. **ALL APPLICATIONS MUST BE TURNED IN ON TIME FOR A STUDENT TO BE CONSIDERED FOR THAT VOCATIONAL PROGRAM.**

HEALTH CAREERS

Grade 12

4 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

Students attend class 8-11:30 five days per week for the first seven weeks and study the following topics: Community Health and Facilities, Legal and Ethical Issues, Role of the Nurse's Aide (bathing, feeding, ADLs assisting), Anatomy and Physiology, First Aide, Infection Control, and Care of the Elderly. The students all master taking vital signs.

For the next 31 weeks, the students' activities in the class are reduced to four hours a week and rotations begin for eleven hours per week through the following locations: Long Term Care Facility, Veterinary Hospital, Dental office, Sheltered Workshop, and our Community Hospital. While on hospital rotations, they shadow and participate in over 350 hours of clinical experience. Pharmacy, radiology, labor and delivery, laboratory services, medical-surgical unit, home health, physical therapy, cardiac rehabilitation, emergency room, respiratory therapy, and the EMS are more of the clinical rotations where students learn first-hand about the many careers pertinent to each area. Staff nurses and department heads are involved weekly with student evaluations of their performance. Through these evaluations, the students learn quickly how to be a successful employee according to real work site expectations.

Also stressed in the program is college preparation, organizational skills, study skills, and what kind of education each health-related career demands.

The following vocational programs are also available through the IMPACT Institute:

AUTOMOTIVE TECHNOLOGY I, II

5510, 5546

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- This course meets the guidelines of NATEF/ASE certification in the areas of Brakes, Electrical/Electronics, Engine Performance, Heating/ Air Conditioning, and Suspension/Steering. Students completing two years will earn one year credit towards their ASE certification.
- Over the course of two years, students will have the opportunity to apply for the following dual credits through Ivy Tech Community College:
 - AUTC101 Steering and Suspension—3 credits
 - AUTC109 Engine Performance—3 credits
 - AUTC113 Electrical and Electronics—3 credits
 - AUTC121 Braking Systems—3 credits

AUTO BODY COLLISION REPAIR I, II

5514, 5544

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- This course provides the latest in practical, hands-on coursework driven by industry standards and the basic skills required for employment in the auto body industry. All phases of auto collision damage, repair, replacement and repainting will be covered. Some techniques include welding, masking, sanding, painting and uni-body frame straightening.
- Students will be allowed to apply for the following dual credits over the course of two years:
 - AUBR103 Automotive Paint Fundamentals—3 credits (Ivy Tech Community College)
 - Body100 Body Repair—5 credits (Vincennes University)
 - Body100L Body Repair Lab—4 credits (Vincennes University)

COMPUTER-AIDED DRAFTING (CAD) I, II

5640, 5652

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- This course provides instruction in CAD Drafting, Architectural Drafting, Industrial Mechanical Drafting, Graphic Design and Civil Drafting. The curriculum also includes 3D modeling technology, 3D prototyping technology and multiple versions of CAD software.
- Students taking the course for two years may be eligible to apply for the following dual credits:
 - DESN113 Intermediate CAD—3 credits (Ivy Tech State College)
 - DESN104 Mechanical Graphics—3 credits (Ivy Tech State College)
 - DESN108 Residential Design—3 credits (Ivy Tech State College)
 - DRAF140 Introduction to CAD—3 credits (Vincennes University)
 - ARCH141 Introduction to Architectural CAD—3 credits (Vincennes University)
 - ARCH221 Advanced Architect Software Applications—4 credits (Vincennes University)
 - DRAF120 Computers for Technology—2 credits (Vincennes University)

CONSTRUCTION TRADES I, II

5580, 5578

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- Students in this course take part in the construction of new home or commercial building. They will be exposed to the latest in building technology and have the opportunity to see, or be involved in, the project from start to finish. Areas of study include: concrete work, framing, roofing, siding, window installation, dry walling, finish work, some plumbing, heating, and all electrical.
- Throughout the completion of two years of course instruction, students may be eligible to apply for the following dual credits:
 - CONT101 Introduction to Construction Technology—3 credits (Ivy Tech Community College)
 - CONT102 Construction Material—3 credits (Ivy Tech Community College)
 - BCOT104 Floor and Wall Layout Construction—3 credits (Ivy Tech Community College)
 - BCOT113 Interior Trim—3 credits (Ivy Tech Community College)
 - BCOT114 Exterior Trim—3 credits (Ivy Tech Community College)
 - CNST100 Construction Seminar—1 credit (Vincennes University)
 - CNST120 Construction Safety—2 credits (Vincennes University)

COSMETOLOGY I, II**5802, 5806**

Grades 11-12

- Six credits
- Students enrolled in Cosmetology receive 1500 hours of training during the two-year program in areas such as hair cutting, coloring, perms, facials, facial makeup, bacteriology, nails and nail disorders, chemistry, personal grooming, and many more areas. Training follows the state-mandated curriculum with the goal of students earning their cosmetology license upon successful completion of the State Board exam. Students in the program are also highly active in community service projects.
- **Students must commit to the entire two-year program.**
- Students are responsible for a one-time kit fee of \$430. Full payment is due no later than the first day of class.
- Students may be eligible to apply for the following dual credits through Vincennes University:
 - COSM100 Cosmetology 1-7 credits
 - COSM150 Cosmetology 2-7 credits
 - COSM200 Cosmetology 3-7 credits
 - COSM250 Cosmetology 4-9 credits

CRIMINAL JUSTICE I**5822**

Grades 11-12

- Six credits
- Criminal Justice is a one-year program which provides students with an introduction to Criminal Justice professions such as police officer, FBI agent, Secret Service agent, attorney, paralegal, probation officer, law clerk, state trooper, detective, and others. Students will study criminal justice careers through classroom theory, field trips, personal guest speakers, hands-on experiences and case studies. Students will explore organized crime, fingerprinting, criminal patterns, interrogations, arrest procedures, crime scene investigation, patrol techniques, evidence and collection, traffic accident investigations, report writing, constitutional rights, and many other areas.
- Students may be eligible to apply for the following dual credits through Vincennes University:
 - LAWE100 Survey of Criminal Justice—3 credits
 - LAWE106 Introduction to Traffic Control—3 credits

CULINARY ARTS and HOSPITALITY I, II**5440, 5346**

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.

- This program is designed to prepare students to join the workforce or continue their education in the area of food service operation, preparation, and ultimately, professional chef. Targeted areas of curriculum include: nutrition, sanitation and safety, basic food preparation, baking, pastries, meat and seafood, equipment utilization and maintenance, purchasing, inventory and management. Students will have an opportunity to earn their ServSafe Certification.
- Students may be eligible to apply for the following dual credits through Ivy Tech Community College:
 - HOSP101 Sanitation and First Aid—3 credits
 - HOSP105 Introduction to Baking—3 credits

HEATING, VENTILATION and AIR CONDITIONING I, II

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- Basic Skills taught in this program include the working and installation systems of heating, ventilation, air conditioning and refrigeration, basic electricity, sheet metal patterns, welding, soldering, and piping. The goals of this program are to train students for entry-level job positions, encouraging them to further their knowledge in following apprenticeship programs and technical school. Students completing the program earn one-year credit towards Association of Builders and Contractors (ABC) apprenticeship training in heating, ventilation air conditioning and refrigeration.
- Students may be eligible for the following dual credits over the course of the two-year program:
 - HVAC101 Heating Fundamentals—3 credits
 - HVAC103 Refrigeration—3 credits
 - HVAC107 Duct Fabrication and Installation—3 credits

INTERACTIVE MEDIA

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- This course will teach students to communicate ideas through different media with exposure in video, print, motion graphics, and the web. Some possible areas of study within the two years of instruction include, but are not limited to: music and video recording/editing/mixing, game design and development through motion graphics, 3D graphics and animation, branding/marketing through computer graphics, and more. Some possible career paths with this program and post-secondary education may include: graphic designer, flash designer, illustrator, web designer, web developer,

production artist, digital media artist, 3D modeler, visual effects artist, web content developer, and video editor.

MARINE MECHANICS

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- The FCAVC marine mechanics program is the only Marine Mechanics program in the United States to have earned the Marine Industry Certification. Students completing the two-year program will earn their MIC certification. Instruction covers many facets of the industry including outboard and stern drive engine repair, repair and testing of stern drive lower units, steering mechanisms, hull repair and detailing, trailer adjustments, winterizing of engines, boat handling and safety of operation, troubleshooting mechanical and electrical problems, customer relations, EFI troubleshooting, and other areas.
- Students may be able to test out of portions of the Marine Mechanic's Institute marine mechanics programs and also will have access to additional opportunities through Wyotech. Students also receive five National Essentials Certifications from Bombardier as well as Mercury E-Skills.

PRECISION MACHINING I, II

5782, 5784

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- This program introduces students to the basics of the precision tool making trade. Students will be instructed in the use of lathes, mills, surface grinders, OD grinders, drill press, saws and other machine shop equipment related to precision tool making. More technically advanced machinery includes CNC mill, CNC lathe, EDM Sinker, and EDM Wire.
- During two years of instruction, students may be eligible to apply for dual credit through Vincennes University in the following courses:
 - PMTD110 Manufacturing Processes—2 credits
 - PMTD110L Manufacturing Processes Lab—1 credit
 - PMTD117 Basic Machining I—3 credits
 - PMTD118 Basic Machining II—3 credits

PRIMARY HEALTH CARE

Grades 11-12

- Six credits
- Students must interview with the instructor of the program who will then make final selections.
- Primary Health Care is a year-long program which prepares students for a career in the health care industry. One semester of the course takes students through the Certified Nursing Assistants (CNA) certification process with the Indiana State Department of Health, Long Term Care CNA curriculum. This curriculum includes a required 30 hours of classroom instruction, demonstration and practice of 48 skills, and 75 hours of clinical work at a long-term care facility.
The other semester focuses on basic skills that one might see performed in a doctor's office or outpatient facility (medical assisting). Students will gain knowledge of anatomy, physiology, and medical terminology. Health Care Provider CPR certification and First Aid training are also obtained during this part of the class.
- Students may apply for the following dual credits:
 - HLHS107 Certified Nursing Assistant (CAN)—5 credits

WELDING TECHNOLOGY I, II

5776, 5778

Grades 11-12

- Six credits
- It is recommended that students enroll in this program for both the junior and senior years.
- This program is designed to prepare students to join the workforce or continue their education. The main emphasis is placed on theory and practice of shielded metal arc welding, shielded metal gas welding, gas tungsten, arc welding, plasma arc cutting and oxyacetylene cutting. Students are also instructed on safely setting up and operating horizontal saws, chop saws, ironworkers, power shears, drill presses and brakes and hand grinders. The equipment is of the latest technology available with tigs and migs having computerized pulse capabilities. The welding program follows the American Welding Society (AWS) curriculum, which offers the students the opportunity to earn AWS, Level I Certification.
- Students completing the two-year program will have the opportunity to apply for the following dual credits:
 - WELD101 Oxyacetylene Welding—4 credits
 - WELD102 Shielded Metal Arc Welding—4 credits
 - WELD103 Gas metal Arc Welding—3 credits